

INFORMATION DISCLOSURE

CITATION

ATTY. DOCKET NO.
A-67465//RFT/RMS/
RMKSERIAL NO.
09/295,691APPLICANT
KAYYEM, J.FILING DATE
April 21, 1999

GROUP

1744 1743

PTO-1449

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
JH	1	4,707,352	11/17/87	Stavrianopoulos	424	1.17	
JH	2	4,707,440	11/1987	Stavrianopoulos	435	6	
JH	3	4,711,955	12/8/87	Ward et al.	536	25.32	
JH	4	4,755,458	7/5/88	Rabbani et al.	435	5	
JH	5	4,849,513	7/18/89	Smith et al.	536	27 26.6	
JH	6	4,868,103	9/19/89	Stavrianopoulos et al.	435	5	
JH	7	4,894,325	1/16/90	Englehardt et al.	435	6	
JH	8	4,943,523	7/24/90	Stavrianopoulos	435	7.5	
JH	9	4,952,685	8/28/90	Stavrianopoulos	536	25.32	
JH	10	4,994,373	2/19/91	Stavrianopoulos	435	6	
JH	11	5,002,885	3/26/91	Stavrianopoulos	435	188	
JH	12	5,013,831	5/7/91	Stavrianopoulos	536	25.32	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
JH	13	0 063879	11/3/82	Europe				
JH	14	92/10757	6/25/92	PCT (WO)				
JH	15	0 234938	2/26/87	EP (A2)				
JH	16	93/10267	PCT (WO)					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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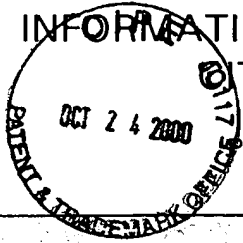
JOHN S. STARSIAK

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26 OCTOBER 2000

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8085 1449A.FRM (8/95)

INFORMATION DISCLOSURE CITATION



TO-1449

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09/295,691

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KAYYEM, J.

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GROUP 1743

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JH</i>	17	5,082,830	1/21/92	Brakel et al.	435	6	
<i>JH</i>	18	5,175,269	12/29/92	Stavrianopoulos	536	26.13	
<i>JH</i>	19	5,241,060	8/31/93	Englehardt et al.	536	25.32	
<i>JH</i>	20	5,278,043	1/11/95	Bannwarth et al.	536	23.1	
<i>JH</i>	21	5,312,527	5/17/94	Mikkelsen et al.	204	153.12 777.5	
<i>JH</i>	22	5,328,824	7/12/94	Ward et al.	435	6	
<i>JH</i>	23	5,449,767	9/12/95	Ward et al.	536	24.3	
<i>JH</i>	24	5,472,881	12/95	Beebe et al.	436	94	
<i>JH</i>	25	5,476,928	12/19/95	Ward et al.	536	24.3	
<i>JH</i>	26	5,595,908	1/21/97	Fawcett et al.	534 435	11 28.1.2	
<i>JH</i>	27	5,565,552	10/15/96	Magda et al.	534	11	
<i>JH</i>	28	5,573,906	11/12/96	Bannwarth et al.	435	6	
<i>JH</i>	29	5,591,578	1/7/97	Meade et al.	435	6	
<i>JH</i>	30	5,601,982	2/1997	Sargent et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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<i>JH</i>	31	2 090904	9/24/93	CANADA				
<i>JH</i>	32	0 599337	1/16/94	EPO				
<i>JH</i>	33	238,166	1988	JP (Abstract (63-238166))				
<i>JH</i>	34	0 229943	7/29/87	EP				
<i>JH</i>	35	96/40712	12/19/96	WO				

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INFORMATION DISCLOSURE CITATION <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; transform: rotate(-15deg);"> PATENT & TRADEMARK OFFICE OCT 24 2000 </div> PTO-1449				ATTY. DOCKET NO. A-67465//RFT/RMS/ RMK		SERIAL NO. 09/295,691		
				APPLICANT KAYYEM, J.				
				FILING DATE April 21, 1999		GROUP 4744 1743		
U.S. PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	36	4,840,893	6/20/89	Hill et al.	435	6		
	37	5,403,451	4/4/95	Riviello et al.	204 205	153-1 177-5		
	38	5,620,850	4/15/97	Bamdad et al.	530	300		
	39	5,780,234	7/14/98	Meade et al.	435	6		
	40	5,770,369	6/23/98	Meade et al.	435	6		
	41	5,705,348	1/6/98	Meade et al.	435	6		
	42	5,824,473	10/1998	Meade et al.	435	6		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
	43	0515615	9/4/96	EP (UK)				
	44	97/01646	1/16/97	WO				
	45	93/23425	11/25/93	WO				
	46	90/05732	5/31/90	WO				
	47	6-41183	2/15/94	JP				X
	48	93/22678	11/1993	PCT				
	49	97/44651	11/1997	PCT				
	50	98/35232	8/1998	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
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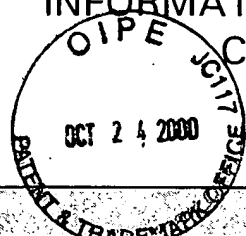
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EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	51	5,776,672	7/1998	Hashimoto et al.	435	6		
	52	5,952,172	9/1999	Meade et al.	435	6		
	53	5,552,270	9/1996	Khrapko et al.	435	6		
	54	5,770,721	6/1998	Ershov et al.	536	25.3		
	55	5,851,772	12/1998	Mirzabekov et	435	6		
	56	5,756,050	5/1998	Ershov et al.	422	100		
	57	5,741,700	4/1998	Ershov et al.	435	287.1		
FOREIGN PATENT DOCUMENTS								
EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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	58	95/15971	6/1995	PCT				
	59	94/22889	10/1994	PCT				X
	60	98/20162	5/1998	PCT				
	61	99/14596	3/1999	PCT				
	62	99/67425	12/1999	PCT				
	63	98/28444	7/1998	PCT				
	64	98/27229	6/1998	PCT				
	65	97/27329	7/1997	PCT				
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<i>JLS</i>	66	5,587,128	12/1996	Wilding et al.	422	50	
<i>JLS</i>	67	5,498,392	3/1996	Wilding et al.	422	68.1	
<i>JLS</i>	68	5,643,738	7/1997	Zanzucchi et al.	435	6	
<i>JLS</i>	69	5,750,015	5/1998	Soane et al.	204	454	
<i>JLS</i>	70	5,726,026	3/1998	Wilding et al.	435	7.21	
<i>JLS</i>	71	5,635,358	6/1997	Wilding et al.	435	7.2	
<i>JLS</i>	72	5,126,022	6/1992	Soane et al.	204	458	
<i>JLS</i>	73	5,304,487	4/1994	Wilding et al.	435	29	
<i>JLS</i>	74	5,071,531	12/1991	Soane	204	616	
<i>JLS</i>	75	5,061,336	10/1991	Soane	156	245	
<i>JLS</i>	76	5,747,169	5/1998	Fan et al.	428	426	
<i>JLS</i>	77	5,296,375	3/1994	Kricka et al.	435	2	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
<i>JLS</i>	78	0 637 998	7/1996	EP				
<i>JLS</i>	79	0 637 996	7/1997	EP				
<i>JLS</i>	80	96/39260	12/1996	PCT				
<i>JLS</i>	81	97/16835	5/1997	PCT				
<i>JLS</i>	82	98/13683	4/1998	PCT				
<i>JLS</i>	83	97/16561	5/1997	PCT				

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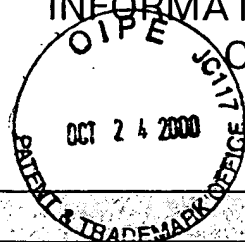
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<i>[Signature]</i>	84	5,110,745	5/1992	Kricka et al.	436	87	
<i>[Signature]</i>	85	5,569,364	10/1996	Hooper et al.	204	455	
<i>[Signature]</i>	86	5,135,627	8/1992	Soane	204	455	
<i>[Signature]</i>	87	5,632,876	5/1997	Zanzucchi et al.	204	600	
<i>[Signature]</i>	88	5,593,838	1/1997	Zanzucchi et al.	435	6	
<i>[Signature]</i>	89	5,585,069	12/1996	Zanzucchi et al.	422	100	
<i>[Signature]</i>	90	5,637,469	6/1997	Wilding et al.	435	7.21	
<i>[Signature]</i>	91	5,486,335	1/1996	Wilding et al.	422	55	
<i>[Signature]</i>	92	5,770,029	6/1998	Nelson et al.	204	604	
<i>[Signature]</i>	93	5,631,337	5/1997	Sassi et al.	526	307.2	
<i>[Signature]</i>	94	4,822,746	4/1989	Walt	436	528	
<i>[Signature]</i>	95	5,114,864	5/1992	Walt	436	528	

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<i>[Signature]</i>	96	97/43629	11/1997	PCT				
<i>[Signature]</i>	97	96/39252	12/1996	PCT				
<i>[Signature]</i>	98	96/15576	5/1996	PCT				
<i>[Signature]</i>	99	96/15450	5/1996	PCT				
<i>[Signature]</i>	100	97/37755	10/1997	PCT				
<i>[Signature]</i>	101	97/27324	7/1997	PCT				

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<i>JS</i>	102	5,143,853	9/1992	Walt	436	501	
<i>JS</i>	103	5,244,636	9/1993	Walt et al.	422	92.07	
<i>JS</i>	104	5,603,351	2/1997	Cherukuri et al.	137	597	
<i>JS</i>	105	5,755,942	5/1998	Zanzucchi et al.	204	454	
<i>JS</i>	106	5,681,484	10/1997	Zanzucchi et al.	216	2	

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107	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).*		
108	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>J. Inorganic Biochem. Abstracts</i> , 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).*		
109	Barisci et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996).*		
110	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).*		
111	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome c: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," <i>J. Phys. Chem.</i> , 90(16):3800-3804 (1986).*		
112	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review.," <i>Sensors and Actuators</i> , B6:45-56 (1992).*		
113	Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995).		
114	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993).*		
115	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990).*		
116	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).*		
117	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).*		
118	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).*		
119	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).*		
120	Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-923 (1991).*		
121	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990).*		
122	Chrissey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).*		
123	Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).*		
124	Commerce Business Daily Issue of September 26, 1996 PSA#1688.		
EXAMINER JOHN S. STARSIAK, JR.		DATE CONSIDERED 30 OCTOBER 2000	

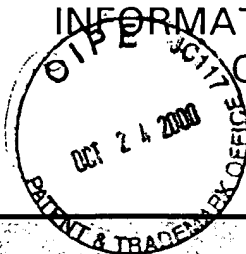


















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* No months available

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	125	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).*	
	126	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).*	
	127	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," <i>J. Am. Chem. Soc.</i> 110:2615-2620 (1988).*	
	128	Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," <i>J. Am. Chem. Soc.</i> , 111:2357-2358 (1989).*	
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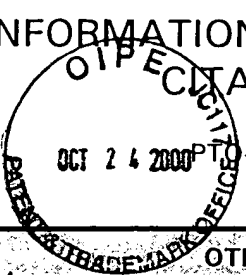
















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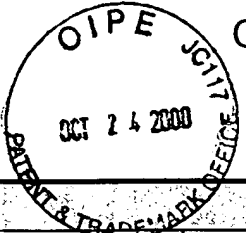
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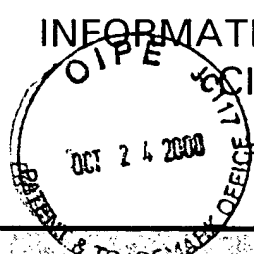















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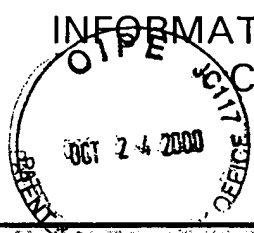
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